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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/517,705	03/02/2000	Chunlin Liang	042390.P5771D	4202
7590 10/05/2005 Blakely Sokoloff Taylor & Zafman LLP 12400 Wilshire Boulevard 7th Floor			EXAMINER	
			LOKE, STEV	EN HO YIN
Los Angeles, CA 90025			ART UNIT	PAPER NUMBER
,			2811	

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
	09/517,705	LIANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Steven Loke	2811				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated the second will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
•	Responsive to communication(s) filed on <u>05 July 2005</u> .					
,						
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 1,16,18,20 and 22-27 is/are pending i 4a) Of the above claim(s) is/are withdraw 5) ⊠ Claim(s) 22,23,26 and 27 is/are allowed. 6) ⊠ Claim(s) 24 and 25 is/are rejected. 7) ⊠ Claim(s) 1,16,18 and 20 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the formula of the following of the following of the drawing of the d	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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1. Claims 1, 16, 18 and 20 are objected to because of the following informalities:

Claim 1, line 7, the phrase "a semiconductor substrate" is unclear whether it is being to
the semiconductor substrate in line 3 of claim 1. Claim 18, line 7, the phrase "a
semiconductor substrate" is unclear whether it is being referred to the semiconductor
substrate in line 3 of claim 18. Appropriate correction is required.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claim 24 is rejected under 35 U.S.C. 102(e) as being clearly anticipated by Miyamoto et al.

In regards to claim 24, Miyamoto et al. show all the elements of the claimed invention in fig. 8B. It is a circuit device, comprising: a first transistor (the NMOS transistor) including a first gate electrode ([3] on the left side of figs. 7C, 8B) composed of a gate material (titanium in titanium nitride) located directly on a first gate dielectric [10], the first gate dielectric located on a first area (p-well) of a semiconductor substrate [1a]; and a second transistor (PMOS transistor) complementary to the first transistor including a second gate electrode ([3] on the right side of figs. 7C, 8B) composed of a nitride (titanium nitride) of the gate material located directly on a second gate dielectric

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[10], the second gate dielectric located on a second area (n-well) of the semiconductor substrate [1a].

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miyamoto et al.

In regards to claim 25, Miyamoto et al. differ from the claimed invention by not showing the gate material is tantalum.

It would have been obvious for the gate material is tantalum because it is one of the widely used high melting point gate materials. The titanium gate material in Miyamoto et al. is a high melting point gate material.

- 6. Claims 1 and 18 would be allowable if rewritten or amended to overcome the objections set forth in this Office action.
- 7. Claims 22, 23, 26 and 27 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (571) 272-1657. The examiner can normally be reached on 8:20 am to 5:50 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sl October 1, 2005 Steven Loke